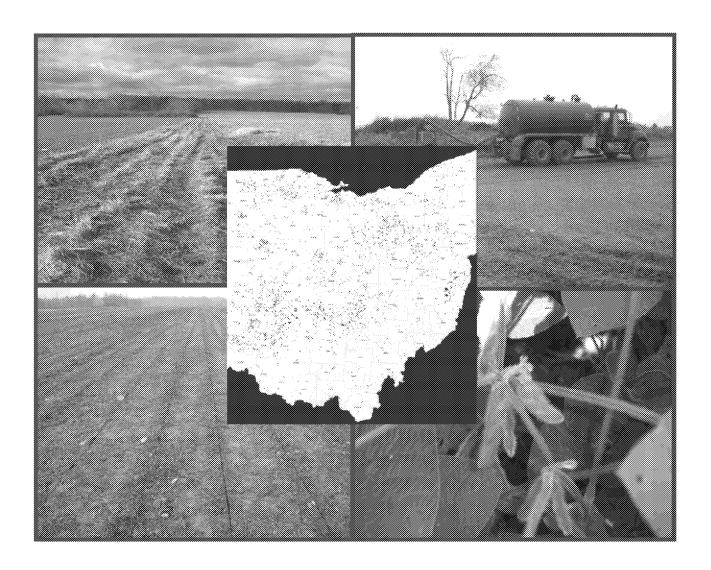


Division of Surface Water

Application for Authorization: Class B Biosolids Beneficial Use Sites



Biosolids Treatment Works Information

Treatment works name: Dovetail Energy, L	.LC			***************************************		
Ohio NPDES permit #: 1IN00305			County: Greene			
Mailing address: 1146 Herr Rd		***************************************				
City: Fairborn	State: OH		Zip: 45324			
Operator of record: Taylor Faecher						
Telephone number: (419) 253-5300						
Email address: info@renergy.com						

Certification Statement

- 1. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.
- 2. I have read and understand Chapter 3745-40 of the Ohio Administrative Code (OAC) and I agree to beneficially use biosolids in accordance with all applicable beneficial use requirements and restrictions established in Chapter 3745-40 of the Ohio Administrative Code.
- I agree to only beneficially use biosolids that have satisfied a pathogen reduction alternative and a vector attraction reduction option and have metals concentration below the pollutant ceiling concentrations as established in Chapter 3745-40 of the Ohio Administrative Code.
- I agree to maintain all applicable records established in Chapter 3745-40 of the Ohio Administrative Code.

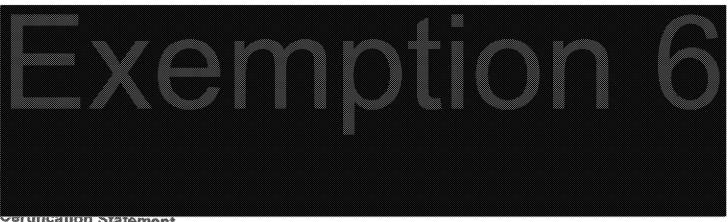
Signature E1717 Date

This form shall be signed by the <u>operator of record</u> for the treatment works, be an original signature, not a copy, and must be less than one year old at the time the application for transfer is submitted to Ohio EPA for review.

Ohio EPA Application for Authorization (8/15)

Form BUA-1 Page 1 of 6

<u>Owner Consent for Beneficial Use</u>



zaruncakon Statement

- I agree to allow biosolids generated by the treatment plant identified on Form BUA-1 to be 1. beneficially used on my property at agronomic rates.
- I agree to allow federal, state and local regulatory staff access to the beneficial use site for 2 the purposes of inspecting and authorizing the beneficial use site, beneficially using biosolids, and collecting and analyzing samples from the beneficial use site. I reserve the right to ask the above parties for proper identification at any time.
- I certify that I am holder of legal title to the property described on application form BUA-5, or 3. am authorized by the holder to give consent for the land application of biosolids, and that there are no restrictions to the granting of consent under this form.



Original signatures, not copies, must be less than one year old at the time the application for transfer is submitted to Ohio EPA for review.

Ohio EPA Application for Authorization (8/15)

Form BUA-2 Page 2 of 6

¹ For purposes of this form, "beneficial use site owner" means the person who owns the legal rights to the

² In the event the owner of the beneficial use site changes, Form BUA-2 must be revised and resubmitted

Beneficial Use Site Operator Consent for Beneficial Use



Certification Statement

I agree to be responsible for complying with all applicable beneficial use requirements established in Chapter 3745-40 of the Ohio Administrative Code.

<u>04'-12</u>'-12

Original signatures, not copies, must be less than one year old at the time the application for transfer is submitted to Ohio EPA for review.

¹For purposes of this form, "beneficial use site operator" means the person who plants, grows, harvests or otherwise manages feed crops, fiber crops, food crops or pasture land on the proposed beneficial use site.

 2 In the event the operator of the beneficial use site changes, Form BUA-3 must be revised and resubmitted to Ohio EPA.

Beneficial User Information

Beneficial user¹: Dovetail Energy, L	LC	
Contact person: Taylor Faecher		
Mailing address: 461 State Route 6	1	
City: Marengo	State: OH	Zip: 43334
Telephone number: (419) 253-5300)	
Email address: info@renergy.com		

Certification Statement

I agree to be responsible for complying with all applicable beneficial use requirements established in Chapter 3745-40 of the Ohio Administrative Code.

Signature²

8, <u>/7</u>, <u>/2</u> Date

Original signatures, not copies, must be less than one year old at the time the application for transfer is submitted to Ohio EPA for review.

¹ For purposes of this form, the beneficial user means the person who sprays or spreads Class B biosolids onto the surface of the beneficial use site, injects below the surface of the beneficial use site, or incorporates into the soil of the beneficial use site, for the purpose of providing an agronomic benefit.

² In the event the beneficial user of the beneficial use site changes, Form BUA-4 must be revised and resubmitted to Ohio EPA.

Beneficial Use Site Information

Ohio EPA Site I.D.

(Ohio EPA Use Only)									
Field site I	D.: GRS-12-05							•••••	
Beneficial	Beneficial use site location: 2 0 3 8 S R 3 4 3								
County: Gr	eene		Township	: Miami		••••••	••••••	***************************************	
Latitude: 3	9.80421		Longitude	: -83.84	626				
Total acrea	age proposed for bene	ficial use: 8	acres						
Type of be	neficial use to be perf	ormed:	Ground sl	ope per	cent:				
Surface application Injection or immediate incorporation			Less than 15%						
Soil pH (s.u): 6.9 Soil phos			Soil phos	phorus (mg/kg):16					
Bedrock d	epth (feet): 3		Bray I Mehli	Kurtz P1 ch 3					
Type of cro	ops to be grown:	Crop	Type	T Fy	pecte	ed Y	ield		7
		Com		1 8 0					
		Soybeans		5 5					
		Wheat		·		~~~~			
		Pasture	······	†		•••••			
		Hay		1	***************************************	***************************************			
		Other:	***************************************						
Soil Types	•			······································		•••••	•••••	•••••	
Soil Unit		ait Niamaa		Hydrol	ogic	Flo	oodi	ng I	Frequency
Symbol	Soil Unit Name			Soil Gr					3SS
CeA	Celina silt loam, 0 to 2 percent			C /	D	Ν	0	n	е
CeB	Celina silt loan	1, 2 to 6	percent	C /	D	Ν	0	n	е
CrA	Crosby silt loam, Southern	Ohio Till Plain, 0	to 2 percent	C /	D	Ν	0	n	е
MhB	Miamian silt loa	m, 2 to 6	percent	С		N	0	n	е
MhB2	Miamian silt loam. 2	to 6 percer	it eroded	С		N	0	n	е

Ohio EPA Application for Authorization (8/15)

Form BUA-5 Page 5 of 6

App	licable isolation distances:					
	Туре	of Iso	lation Distance			
Sur	face waters of the state	Sinkhole/UIC class V drai	inkhole/UIC class V drainage □			
	cupied building		Private potable water sou			
; <u>}</u>	dical care facility		*			
	***************************************	***************************************				
	any endangered species or endan	gerec	l species habitats located	l on the beneficial ι	use	
site?	·	Ye	s No			
	<u> </u>	! =	s] NO			
If "Ye	es" is marked, list the types of endan	gered	species or endangered sp	ecies habitat:		
		•••••				
L						
Have	e biosolids been beneficially used	on th	e site since July 20, 1993	3?	***************************************	
		Ye	s No			
	L		<u> </u>			
If "Y	es" is marked, list the biosolids gene	rators	and years beneficial use o	occurred:		
	Generator	•••••	NPDES permit No.	Year of		
	Ocherator		TVI DEO PERIMENO.	Beneficial Use		

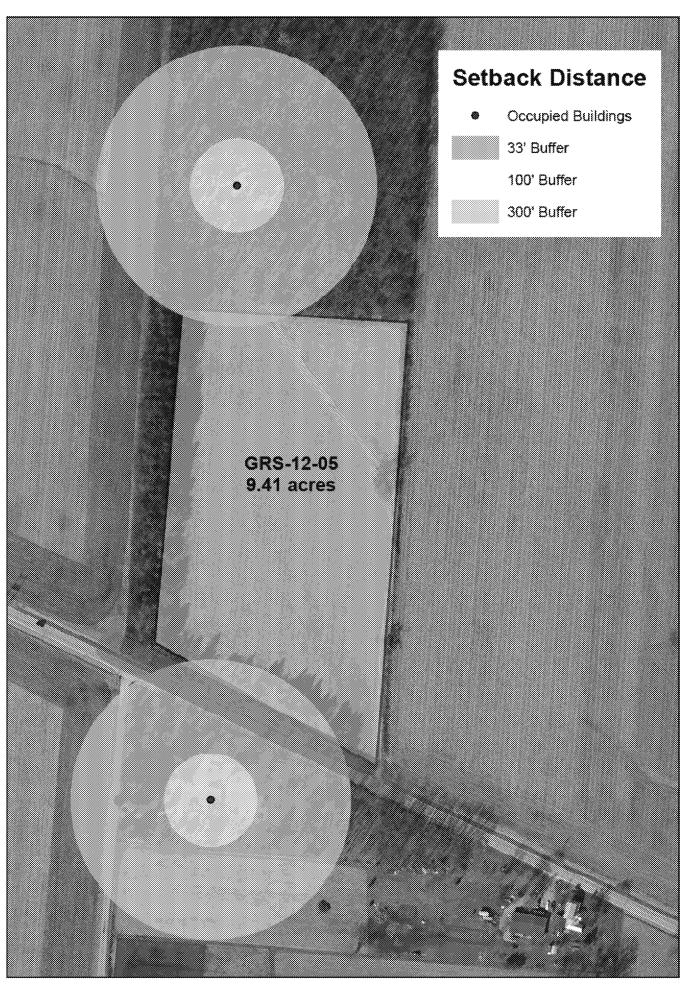
Tha	anniination must alan inaluda all afith		MO I OŠAM ME ^			
1116	application must also include all of th	ie ioiii	oving.			
	A soil map of the proposed benefic	ial us	e site:			
	A frequency flood class map of the					
	An aerial map of the proposed ber			tifies the entrance of	the	
	beneficial use site from the nea		* *	isolation distances	as	
	established in Chapter 3745-40 of					
	A vicinity road map at or near t			identifies the propo	ısed	
,ı	beneficial use site with all roads lal					
	A copy of the most recent soil test	resui	is iudiiundu III UNS IUINI.			

Ohio EPA Application for Authorization (8/15)

Form BUA -5 Page 6 of 6



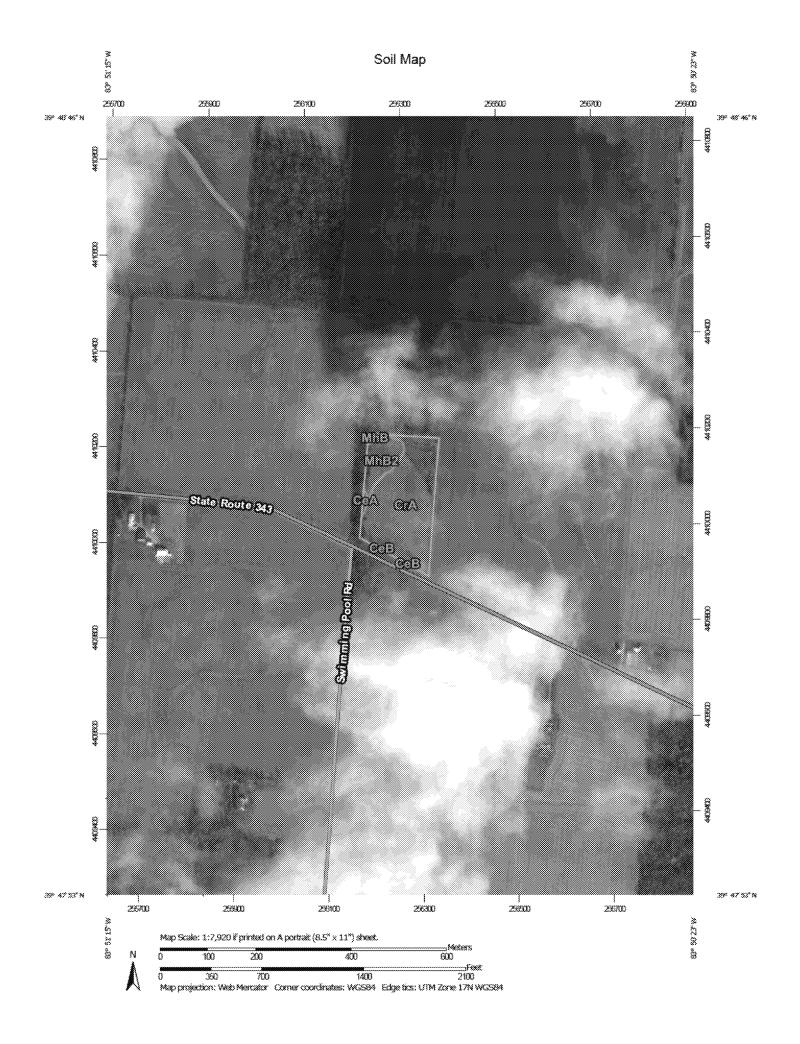
GRS-12-05 Setback Distance





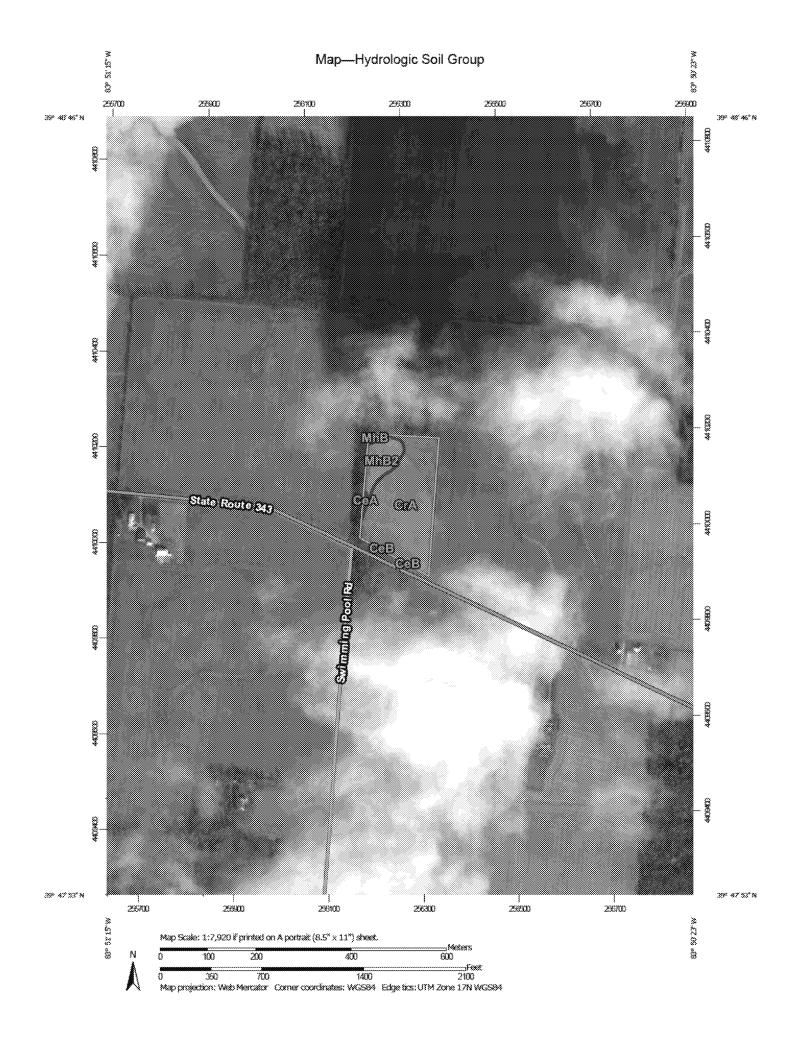
0 0.0375 0.075 0.15 Miles

Setback Distance	
GRS-12-05	
Total Area: 9.41 acres	
Setbacks:	
Residence - 300' Buffer	0.5 acres
Residence - 100' Buffer	0 acres
Surface Waters - 33' Buffer	0.05 acres
Total Setback Area:	0.55 acres



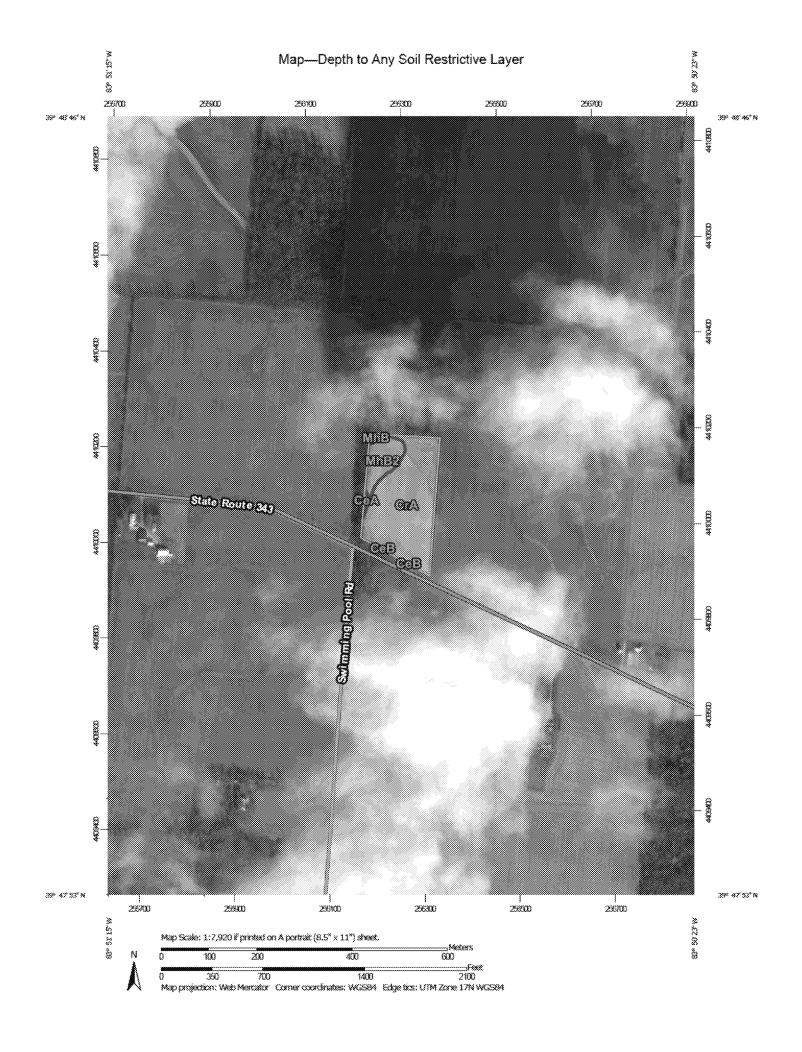
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CeA	Celina silt loam, 0 to 2 percent slopes	0.1	1.0%
СеВ	Celina silt loam, 2 to 6 percent slopes	0.0	0.5%
CrA	Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	7.7	81.4%
MhB	Miamian silt loam, 2 to 6 percent slopes	0.1	1.3%
MhB2	Miamian silt loam, 2 to 6 percent slopes, eroded	1.5	15.8%
Totals for Area of Interest		9.4	100.0%



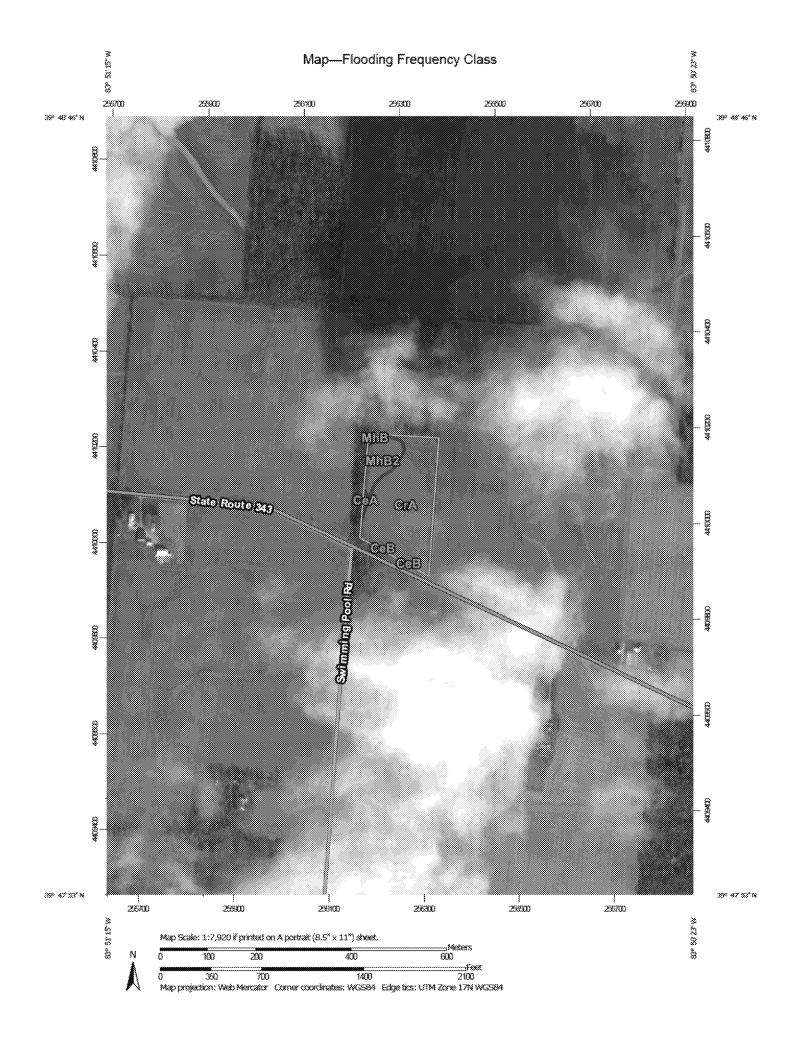
Table—Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeA	Celina silt loam, 0 to 2 percent slopes	C/D	0.1	1.0%
СеВ	Celina silt loam, 2 to 6 percent slopes	C/D	0.0	0.5%
CrA	Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	C/D	7.7	81.4%
MhB	Miamian silt loam, 2 to 6 percent slopes	С	0.1	1.3%
MhB2	Miamian silt loam, 2 to 6 percent slopes, eroded	С	1.5	15.8%
Totals for Area of Inter	est		9.4	100.0%



Table—Depth to Any Soil Restrictive Layer

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
CeA	Celina silt loam, 0 to 2 percent slopes	76	0.1	1.0%
СеВ	Celina silt loam, 2 to 6 percent slopes	97	0.0	0.5%
CrA	Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	91	7.7	81.4%
MhB	Miamian silt loam, 2 to 6 percent slopes	91	0.1	1.3%
MhB2	Miamian silt loam, 2 to 6 percent slopes, eroded	84	1.5	15.8%
Totals for Area of Inter	est		9.4	100.0%



Table—Flooding Frequency Class

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeA	Celina silt loam, 0 to 2 percent slopes	None	0.1	1.0%
СеВ	Celina silt loam, 2 to 6 percent slopes	None	0.0	0.5%
CrA	Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	None	7.7	81.4%
MhB	Miamian silt loam, 2 to 6 percent slopes	None	0.1	1.3%
MhB2	Miamian silt loam, 2 to 6 percent slopes, eroded	None	1.5	15.8%
Totals for Area of Inter-	est		9.4	100.0%

BROOKSIDE LABORATORIES, INC. 74155-20 SOIL AUDIT AND INVENTORY REPORT

Name_	Dovetall Bi	<u>.o Energy</u>	City _	<u>Fairborn</u>		State	OH
Indeper	ndent Consultant	Brookside (Consultant	s of Ohi	o, Inc.	Date _	12/08/2017
Sample	Sample Location LINKHARD						
Sample	Identification						
Lab Nu	mber		1041-1				
Total E	xchange Capacity	(ME/100 g)	18.76			***************************************	
рН		Buffer (SMP/Sikora) H ₂ O (1:1)		······		×	
Organio	: Matter (360°C L0		4.36				
Estimal	ted Nitrogen Relea	ase lb/A	94				
	SOLUBLE SULF	-UR* ppm	7			***************************************	
SNS	g MEHLICH III	lb/A Pas PO₅ ppm of P	73 16				
ANIONS	BRAY II	lb/A Pas ₽O ₅ ppm of P				•••••	
	BRAY II OLSEN	Ib/A Pas ÇO₅ ppm of P					
ш.	CALCIUM*	b/A ppm	37 <u>20</u> 1860			***************************************	
ABI NS	MAGNESIUM*	Ib/A ppm	7 <u>12</u>				
HANGEAE CATIONS	POTASSIUM"	Ib/A	356 138				
EXCHANGEABLE CATIONS	SODIUM"	<u>ppm</u> <u>b/A</u>	69 40				
û—		ppm F	20 IASE SATURA	ION PERCEN			
	Calcium % Magnesium % Potassium % Sodium % Other Bases % Hydrogen %		49.57 15.81 0.94 0.46 6.20 27.00				
			EXTRACTAB	LE MINORS			
	Boron* (ppn)	0.49				
	Iron* (ppm)		206				
	Manganese		49				
	Copper* (pp		3.62				
·····	Zinc* (ppm) Aluminum* (5.53				
		ts (mmhos/cm)	715		***************************************	••••••	
Æρ	Chlorides (p						
OTHER TESTS	οιεσειώσο (μ	**************************************					
OF			•				

^{*} Mehlich III Extractable